

PUBLICATION NUMBER : 01059329  
PUBLICATION DATE : 07-03-89

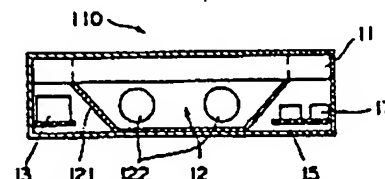
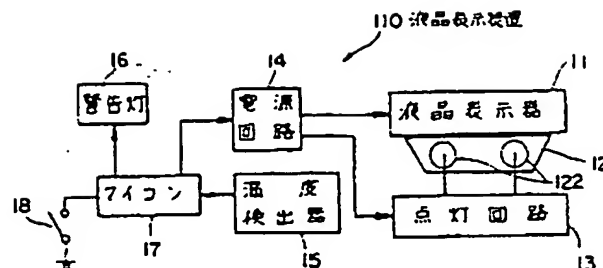
APPLICATION DATE : 31-08-87  
APPLICATION NUMBER : 62217397

APPLICANT : TOSHIBA AUDIO VIDEO ENG CORP;

INVENTOR : TOMIZAWA YOSHIYUKI;

INT.CL. : G02F 1/133 G02F 1/133 G09F 9/00  
G09G 3/18

TITLE : LIQUID CRYSTAL PROTECTING  
CIRCUIT FOR LIQUID CRYSTAL  
DISPLAY DEVICE



ABSTRACT : PURPOSE: To protect a liquid crystal indicator from its deterioration and breakdown, by providing a temperature detector for outputting a detecting signal for showing a fact that the temperature of the inside of a liquid crystal display device has exceeded a prescribed temperature, and a control means for outputting a control signal for turning off a power source supply of a power source circuit, based on said detecting signal.

CONSTITUTION: By installing a temperature detector 15 in the inside of a liquid crystal display device, it is detected that the temperature of the inside of the device has become a high temperature, its detecting output is processed by a control means (microcomputer) 17, and by controlling a power source circuit 14 so that a liquid crystal indicator 11 is not operated for many hours at the time of a high temperature, the liquid crystal indicator 11 is protected. In such a way, it is prevented that the liquid crystal indicator is operated in a high temperature state, the liquid crystal indicator can be protected from its deterioration and breakdown, and especially, in case of using the liquid crystal display device in the inside of a vehicle in which the possibility of operating it at a high temperature is high, a long service life of the liquid crystal indicator can be realized by this protecting circuit.

COPYRIGHT: (C)1989,JPO&Japio

BEST AVAILABLE COPY